



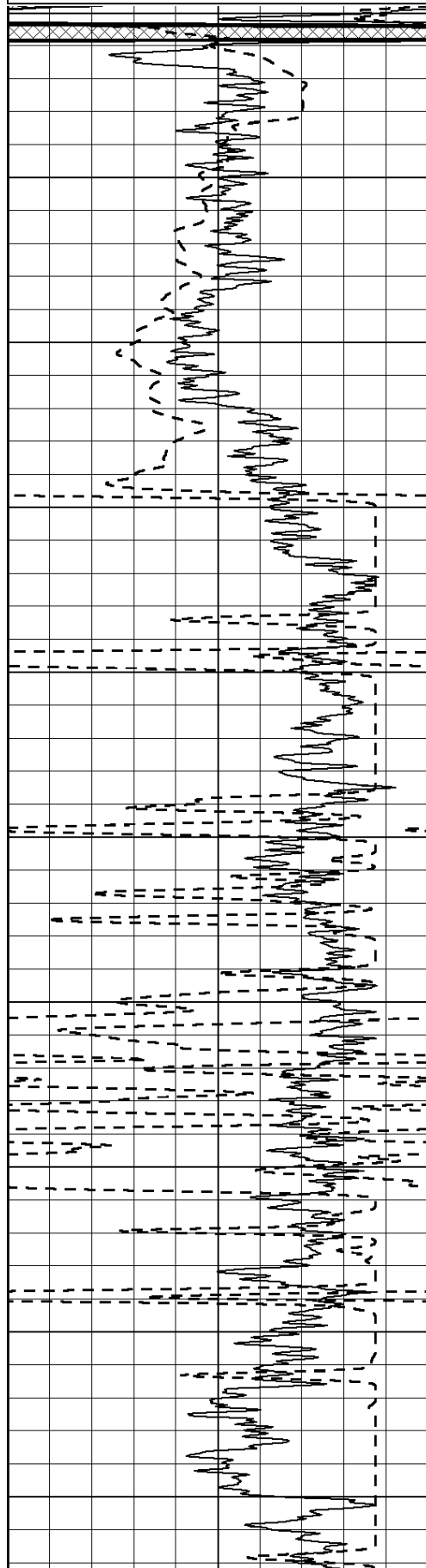
DUAL INDUCTION LOG

<<< Fold Here >>>
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.
Comments
NABORS COMPLETION & PRODUCTION SERVICES CO. 785 (628 - 6395) THANK YOU FOR YOUR BUSINESS DIRECTIONS : FORD, KS. - SOUTH TO WILBURN RD. - WEST 4 MILES TO RD 121 - NORTH 1 1/2 MILES - WEST INTO

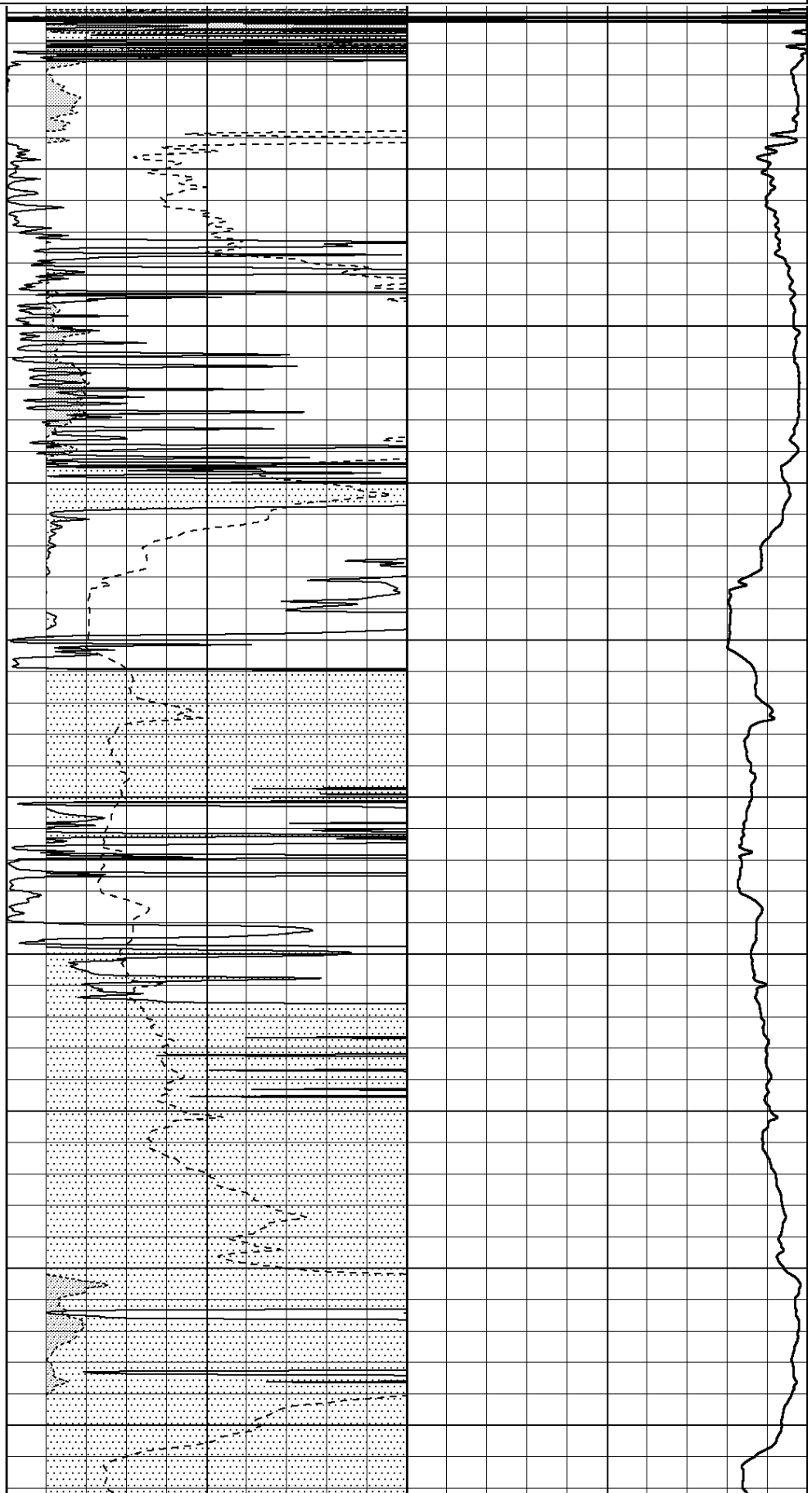
0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

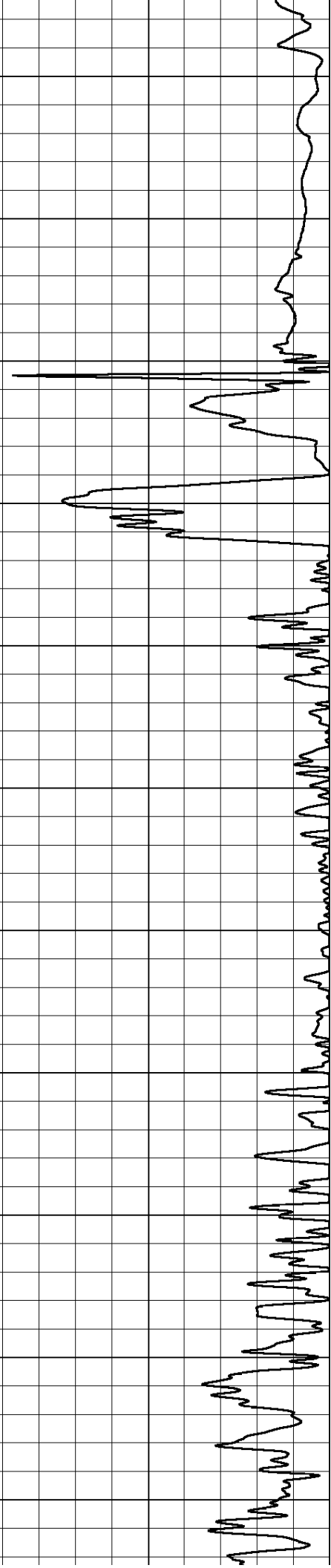
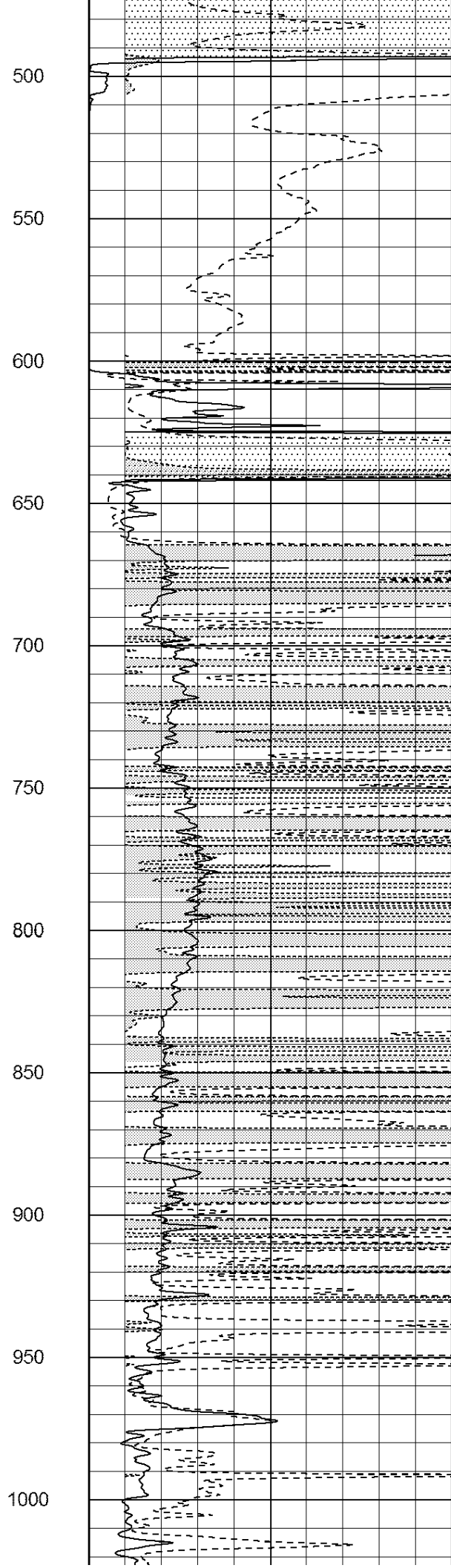
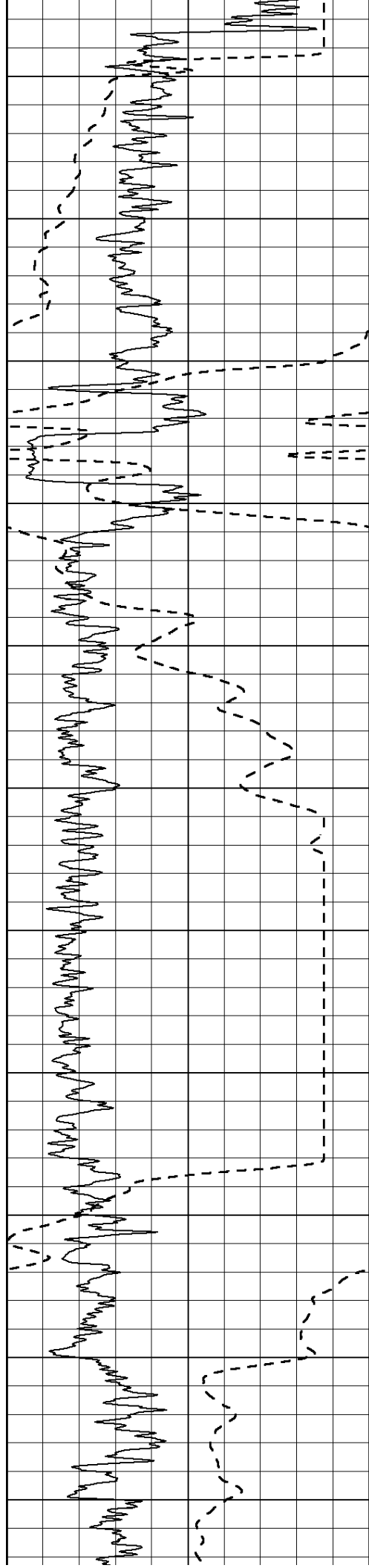
0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50

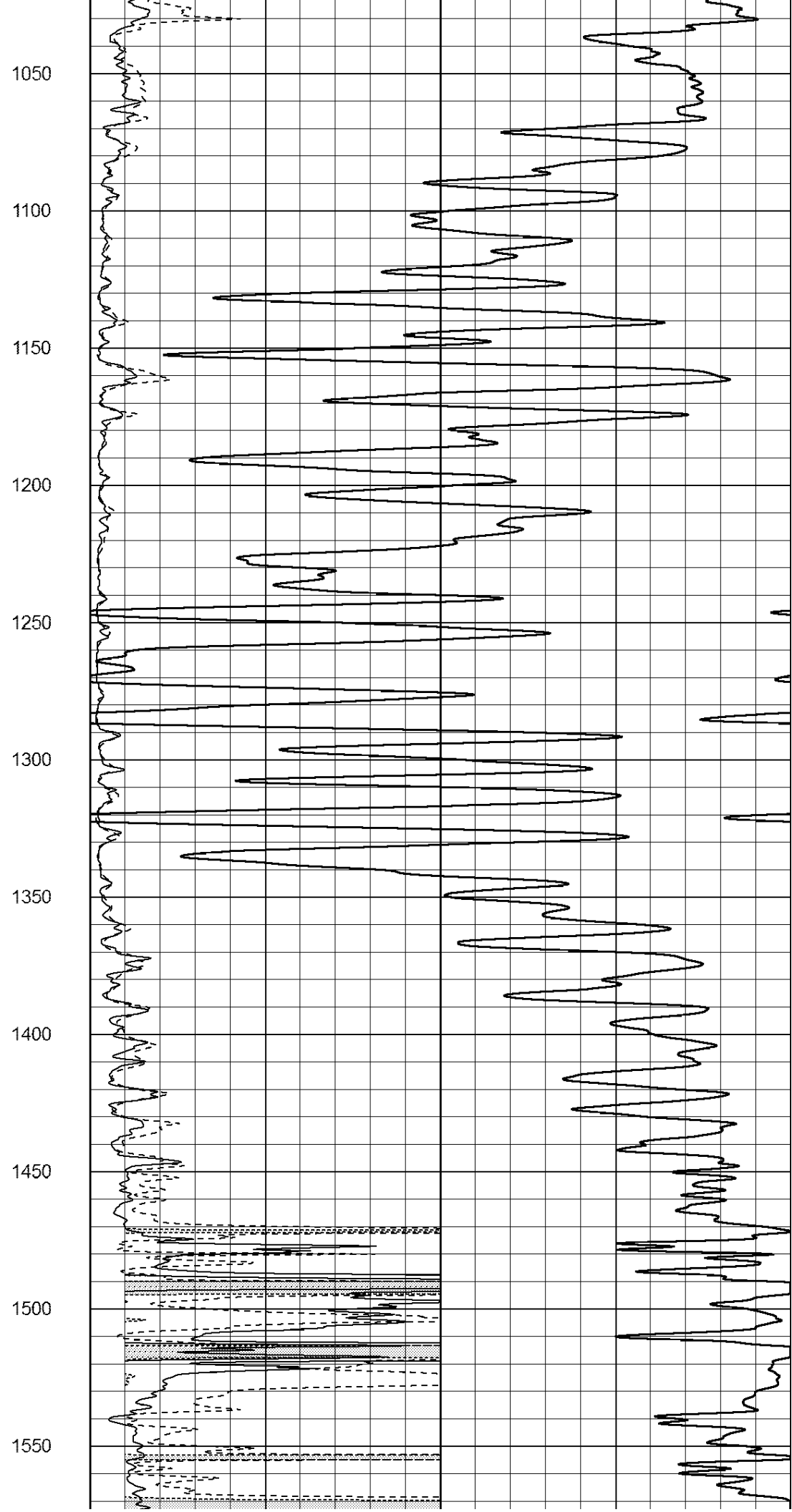
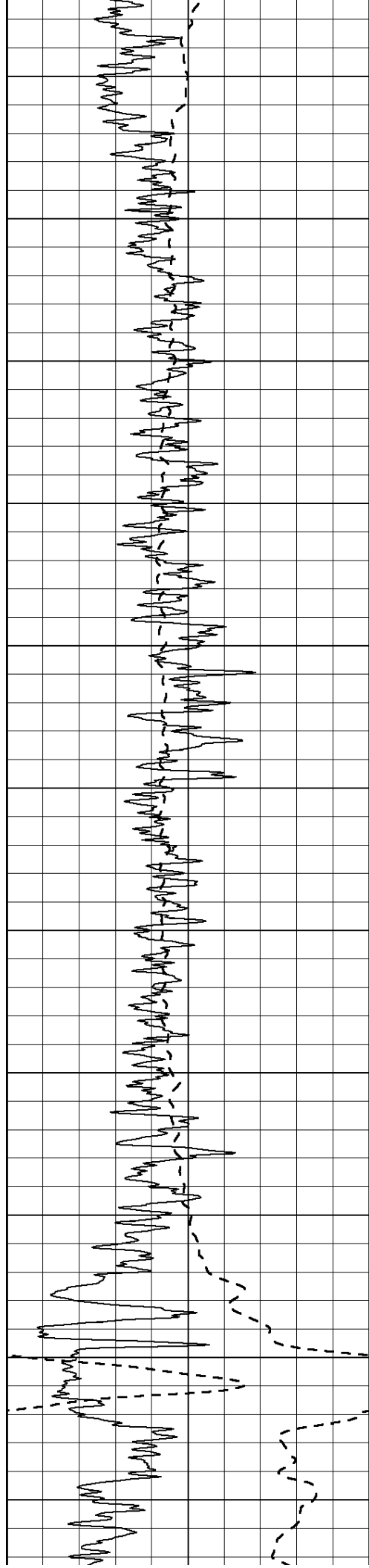
1000	CILD (mmho/m)	0
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

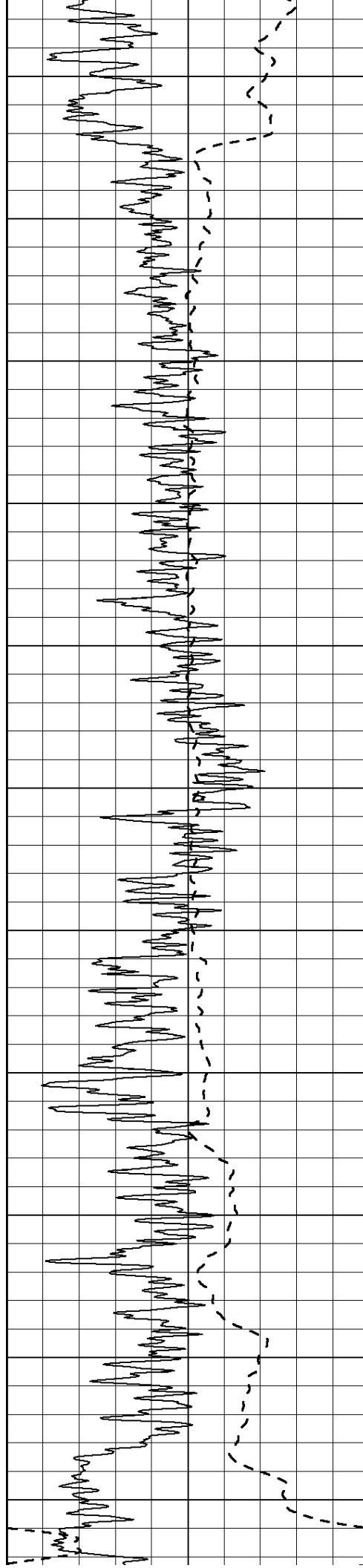


0
50
100
150
200
250
300
350
400
450









1600

1650

1700

1750

1800

1850

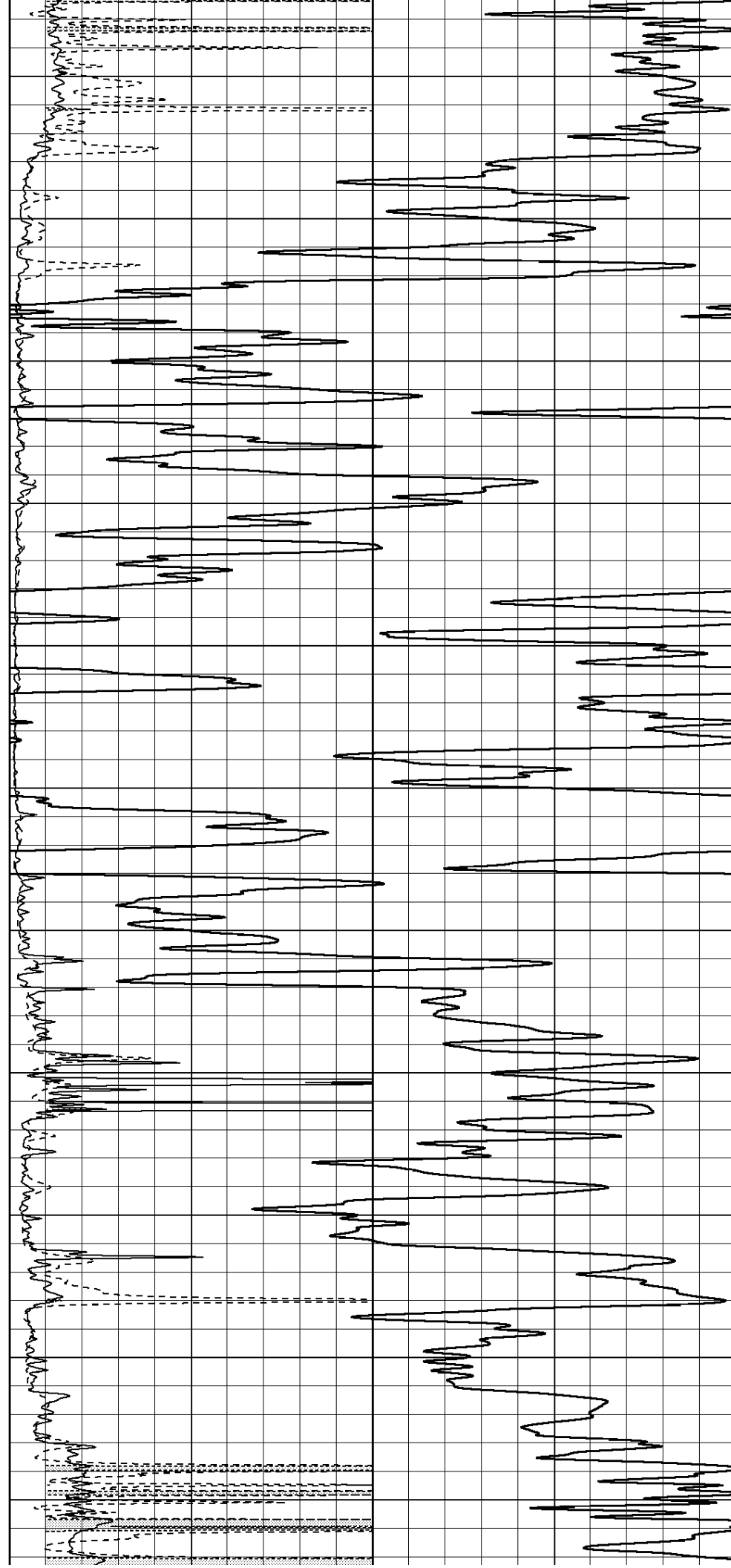
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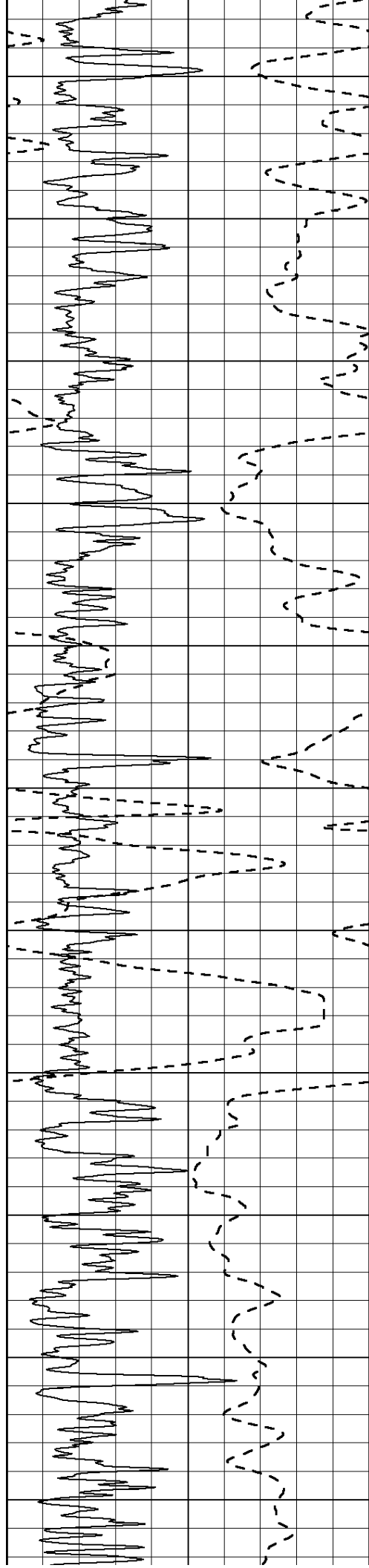
1950

2000

2050

2100





2150

2200

2250

2300

2350

2400

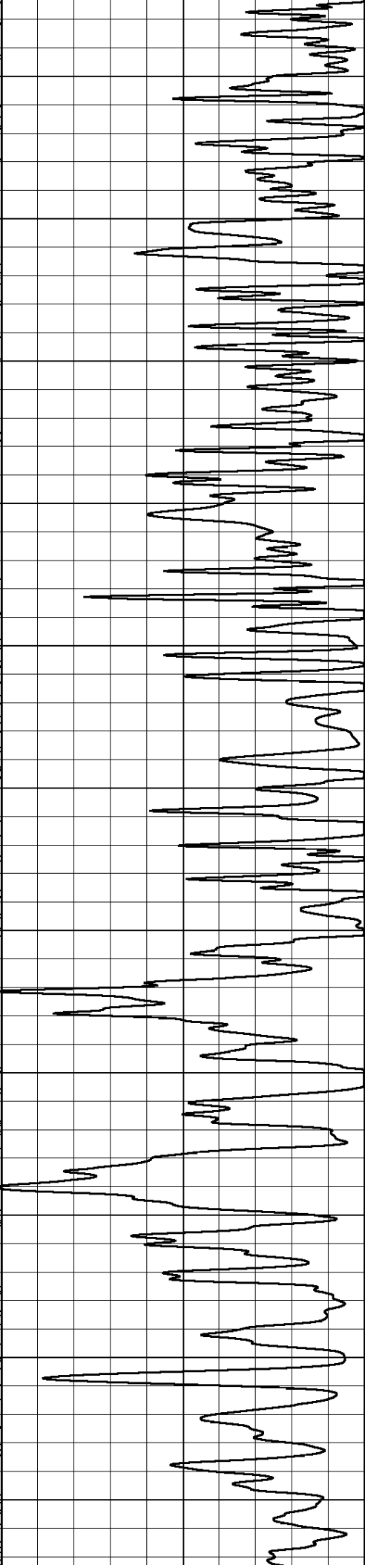
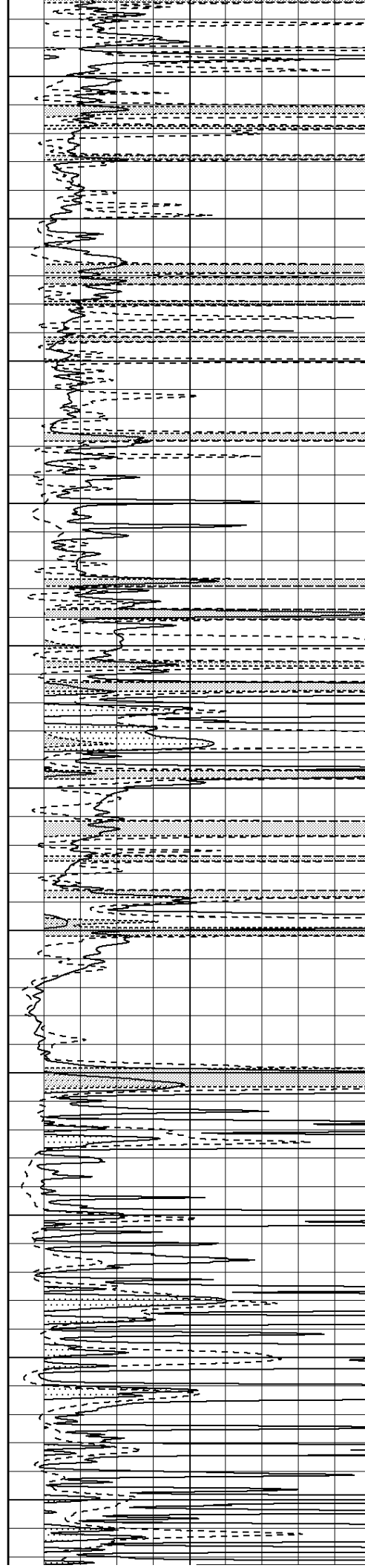
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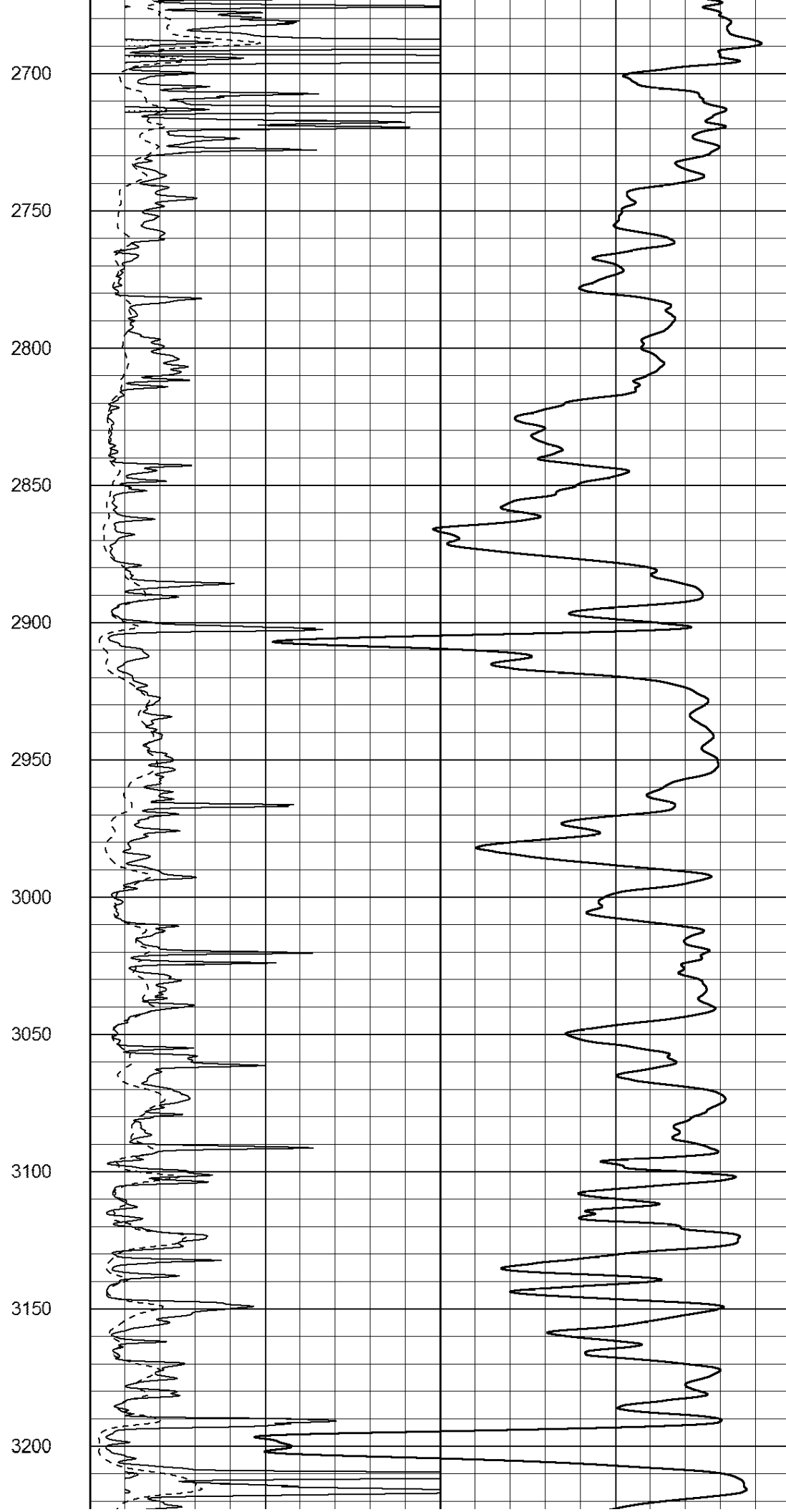
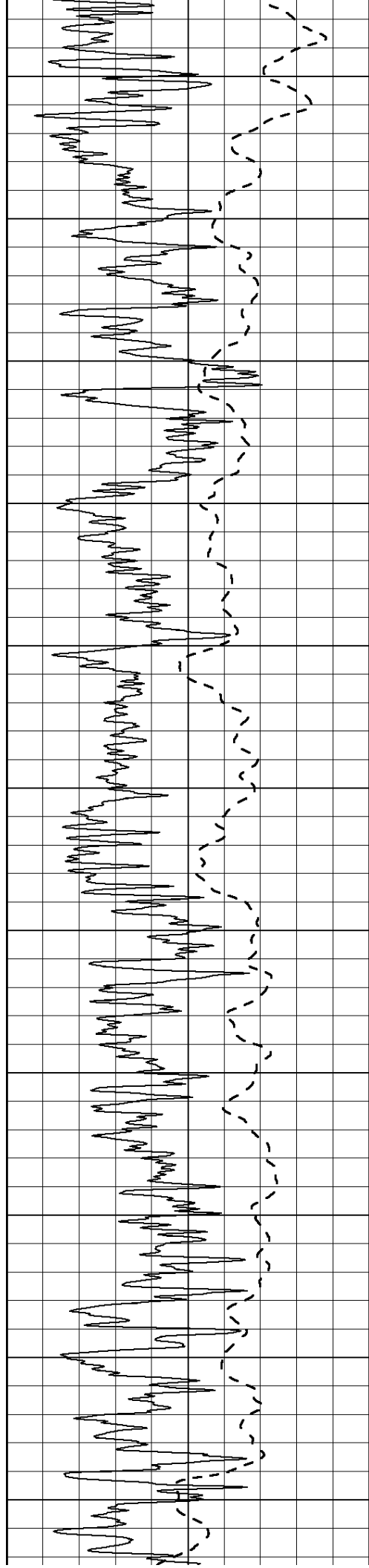
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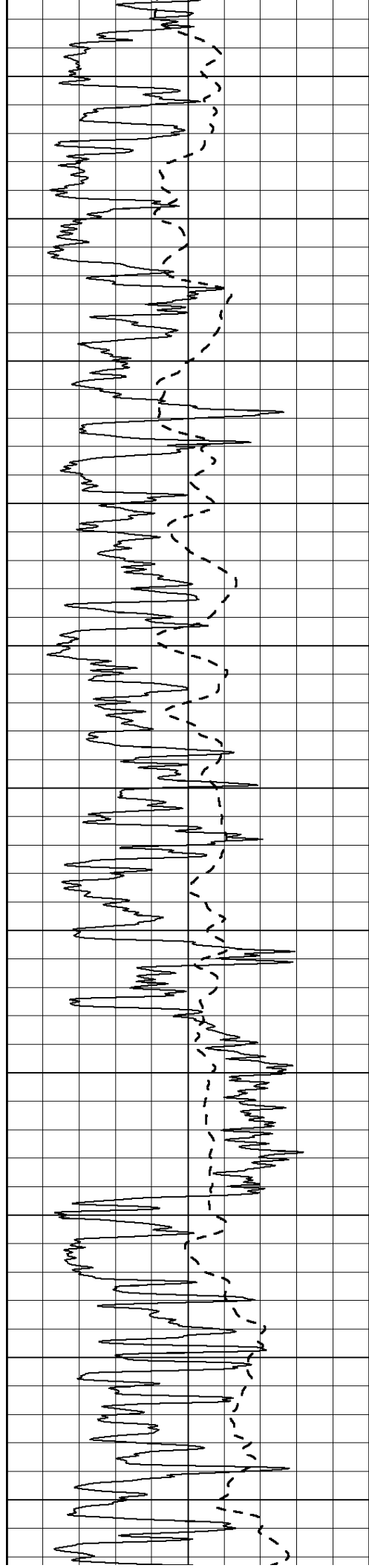
2550

2600

2650







3250

3300

3350

3400

3450

3500

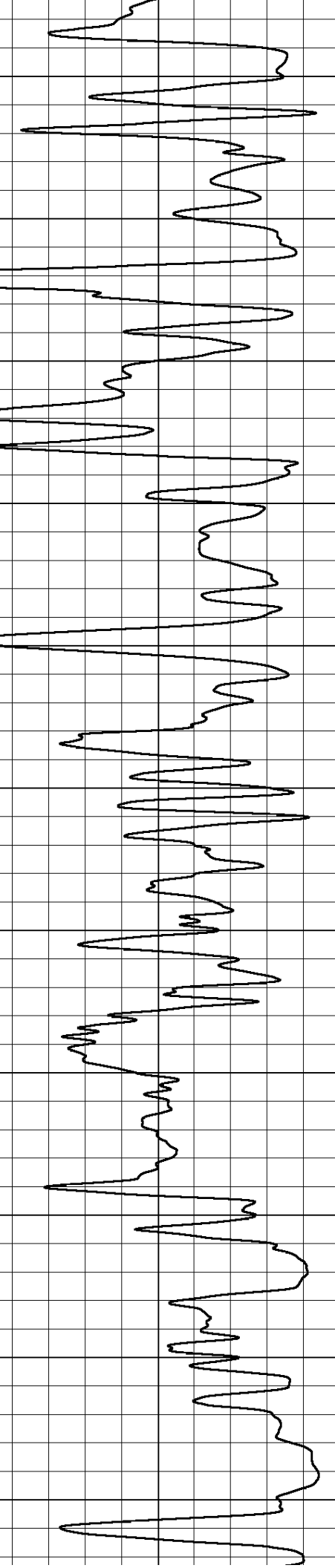
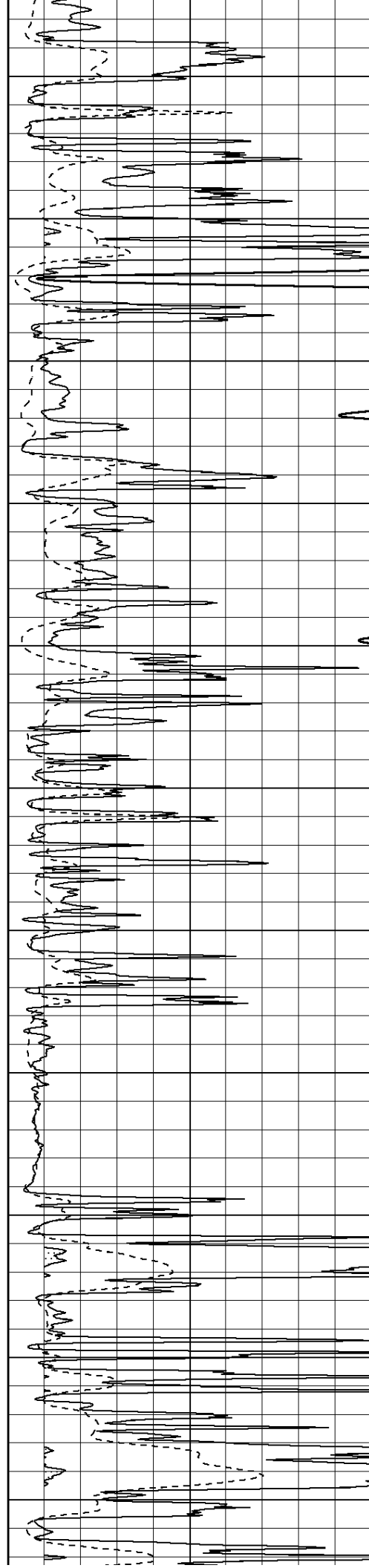
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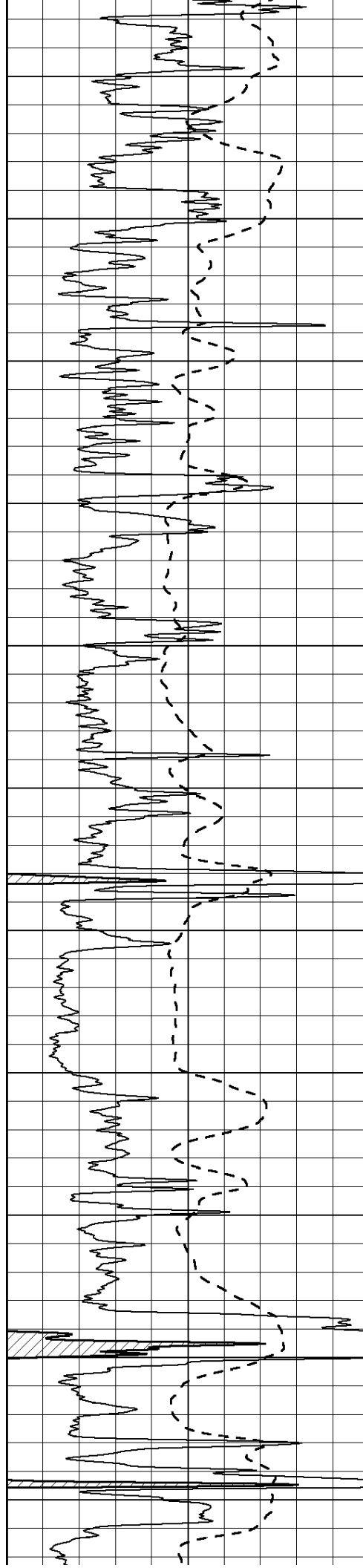
3600

3650

3700

3750





3800

3850

3900

3950

4000

4050

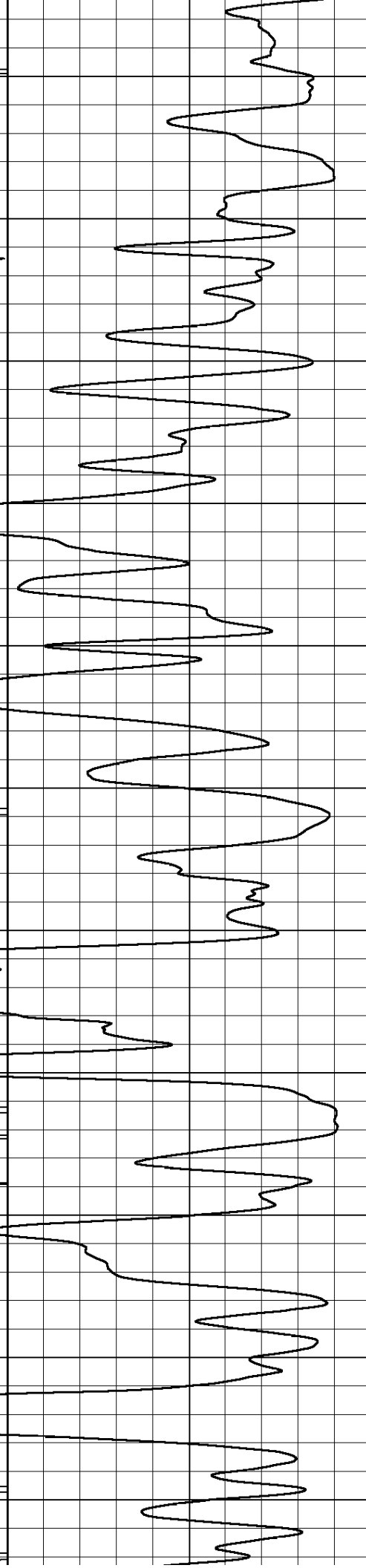
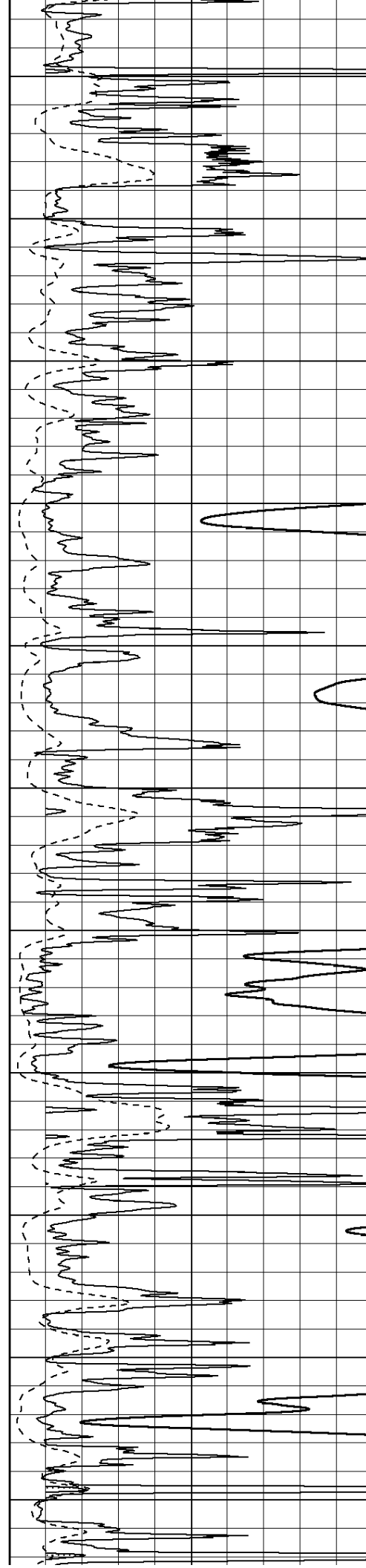
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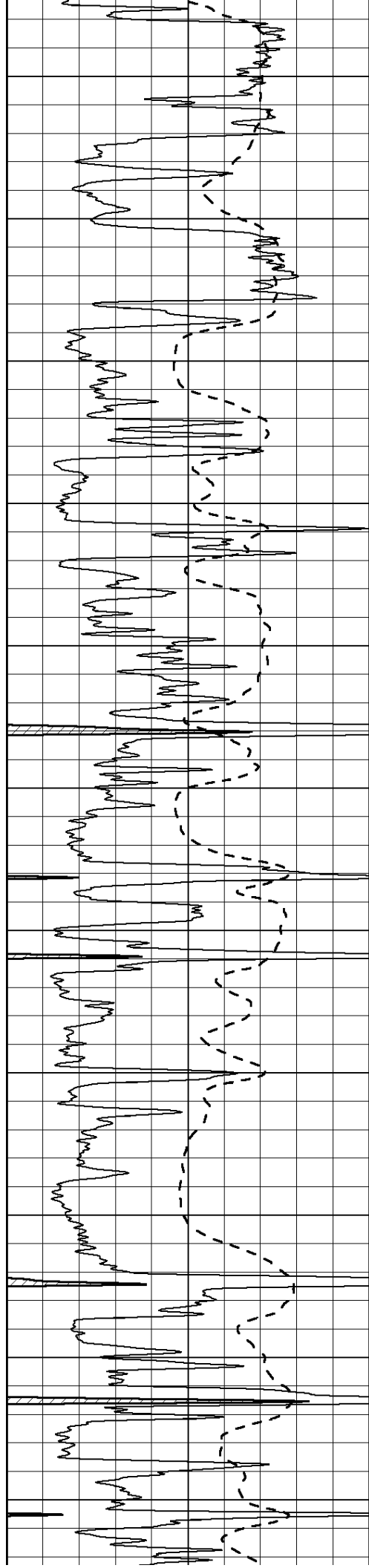
4150

4200

4250

4300





4350

4400

4450

4500

4550

4600

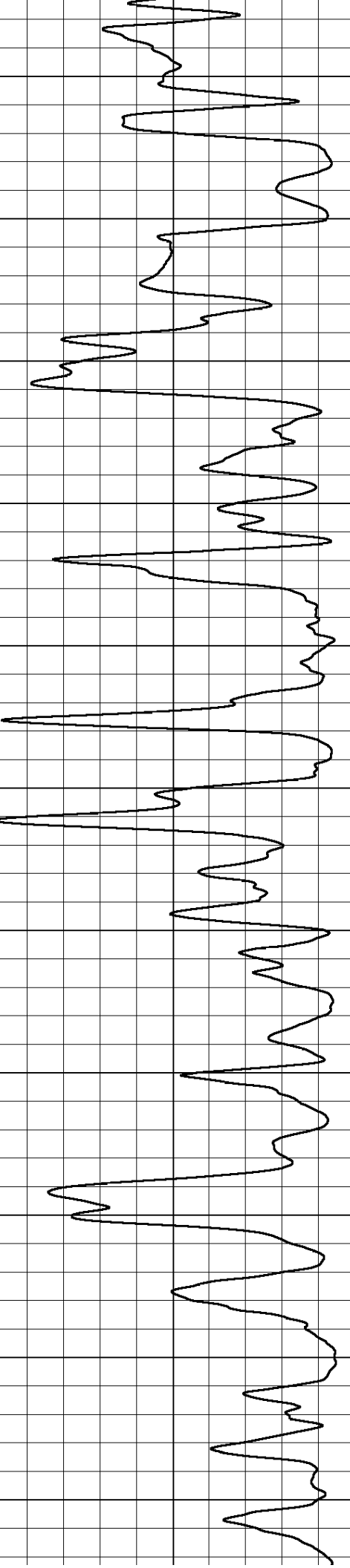
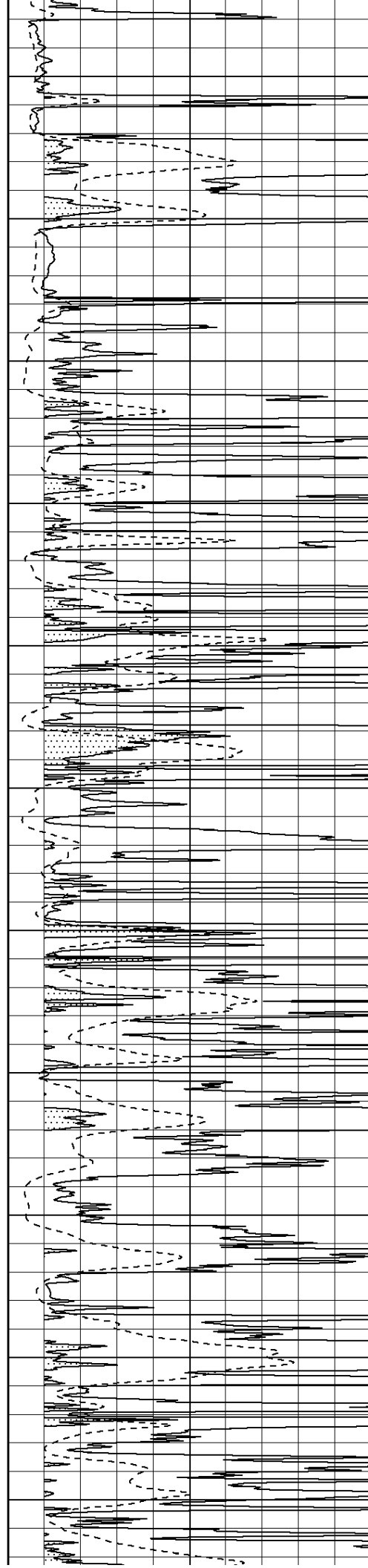
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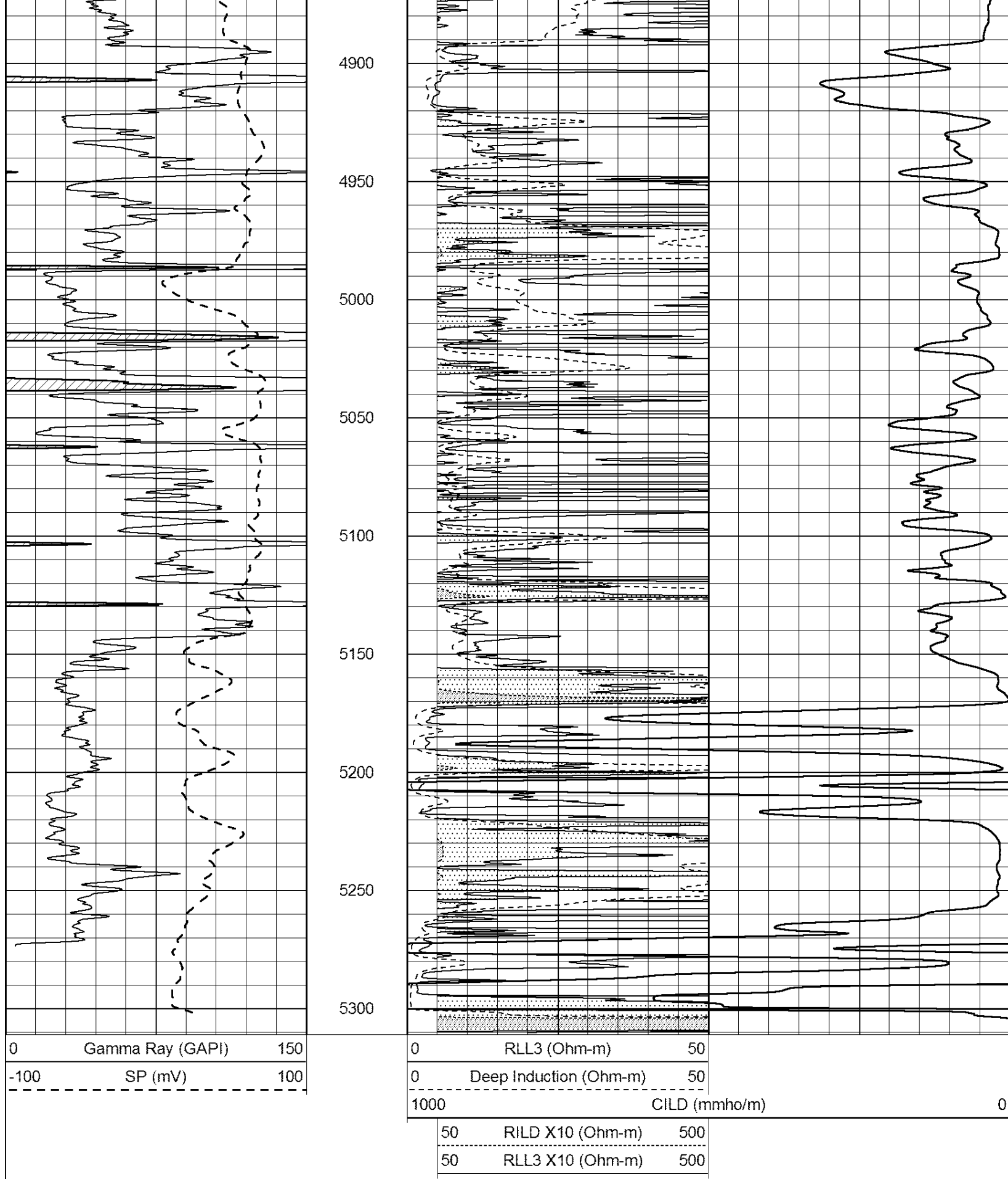
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4750

4800

4850

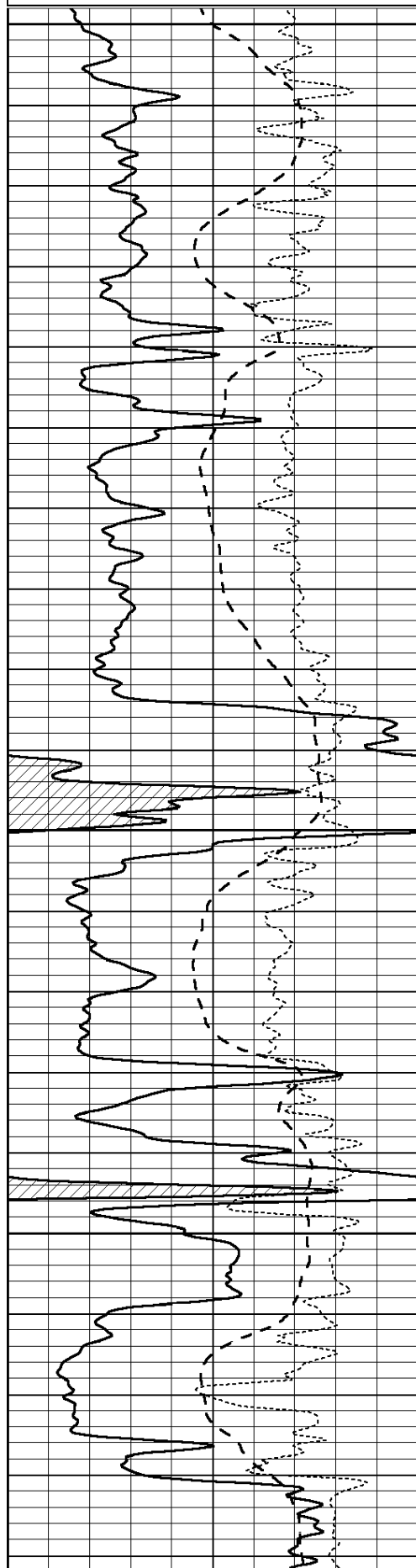




Database File: 26429pe.db
Dataset Pathname: pass3.4
Presentation Format: _dil
Dataset Creation: Wed Jan 07 02:25:39 2015 by Calc Open-Cased 090629

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

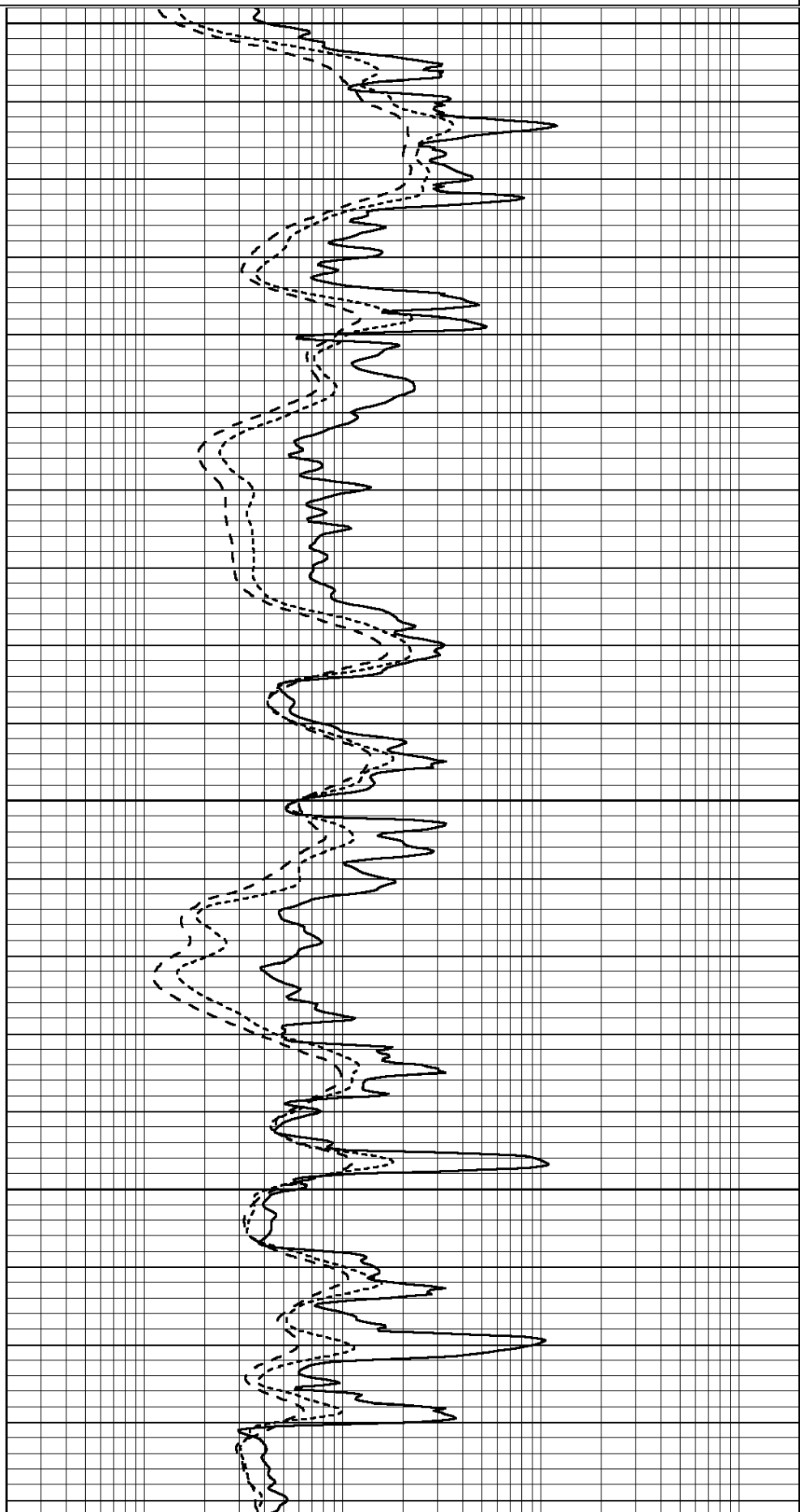


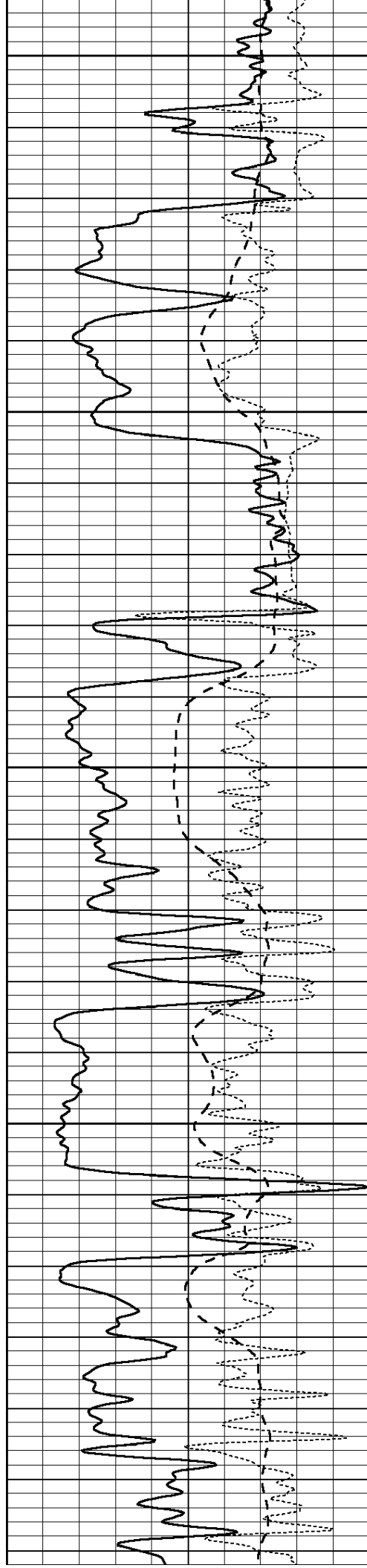
4150

4200

4250

4300





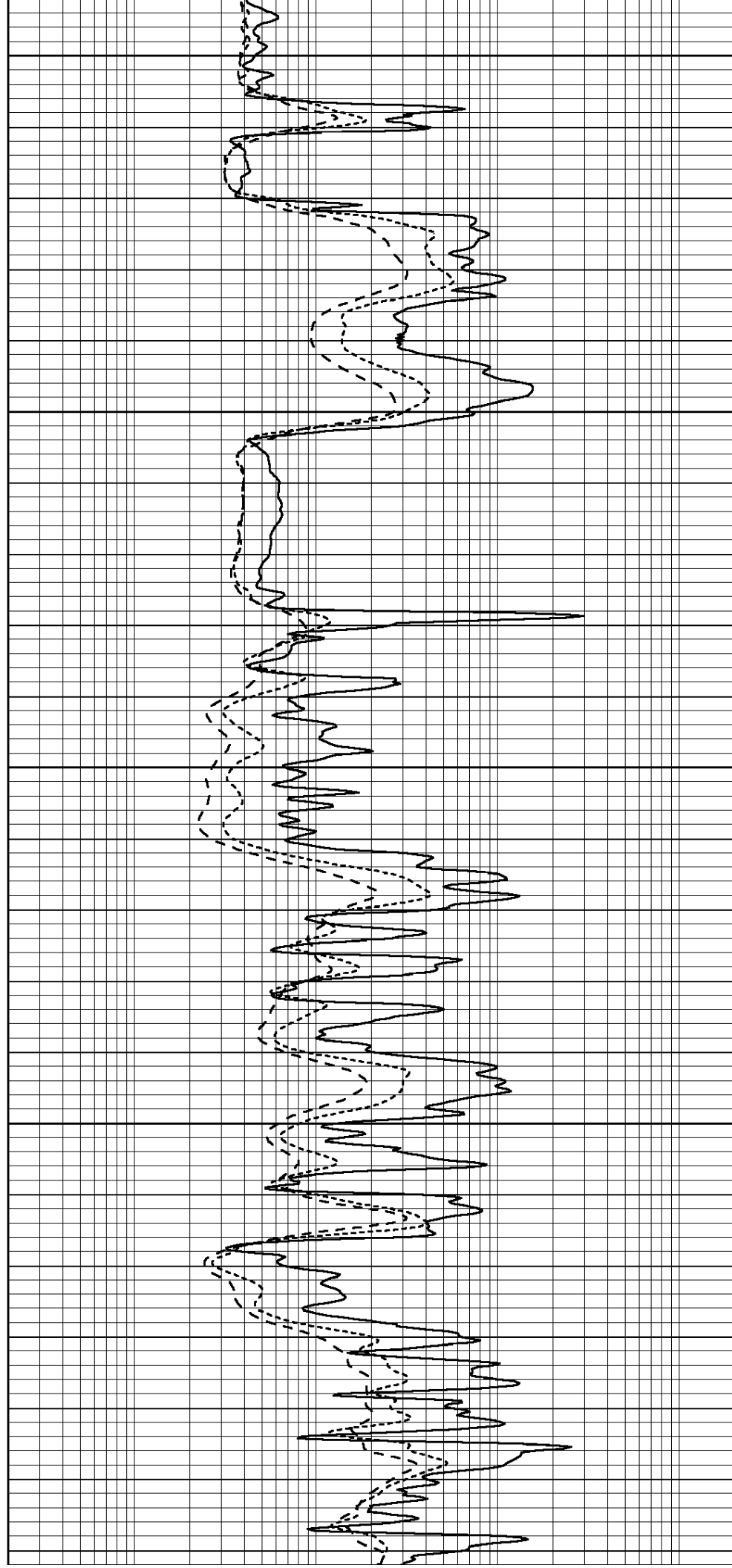
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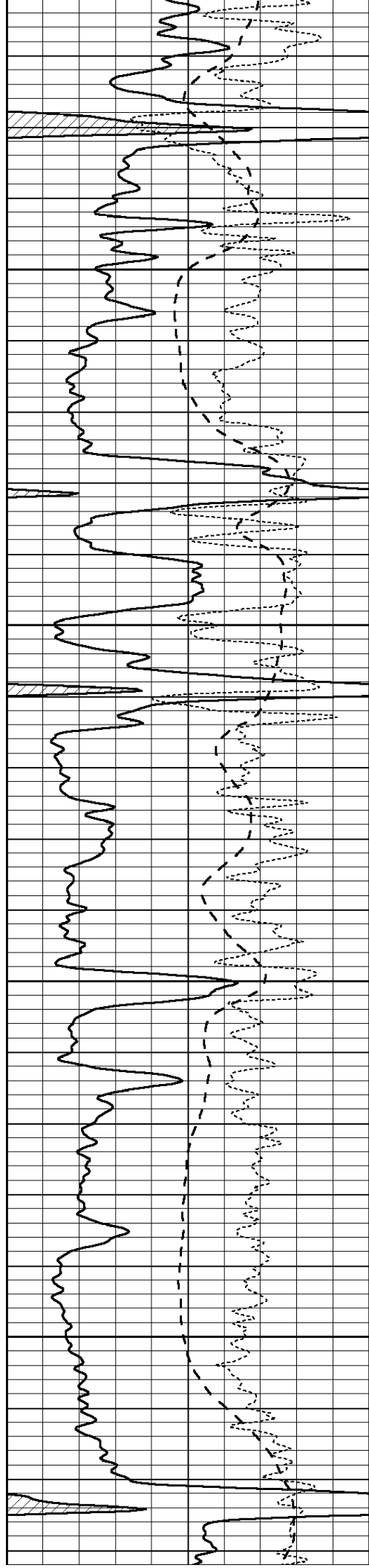
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4500

4550



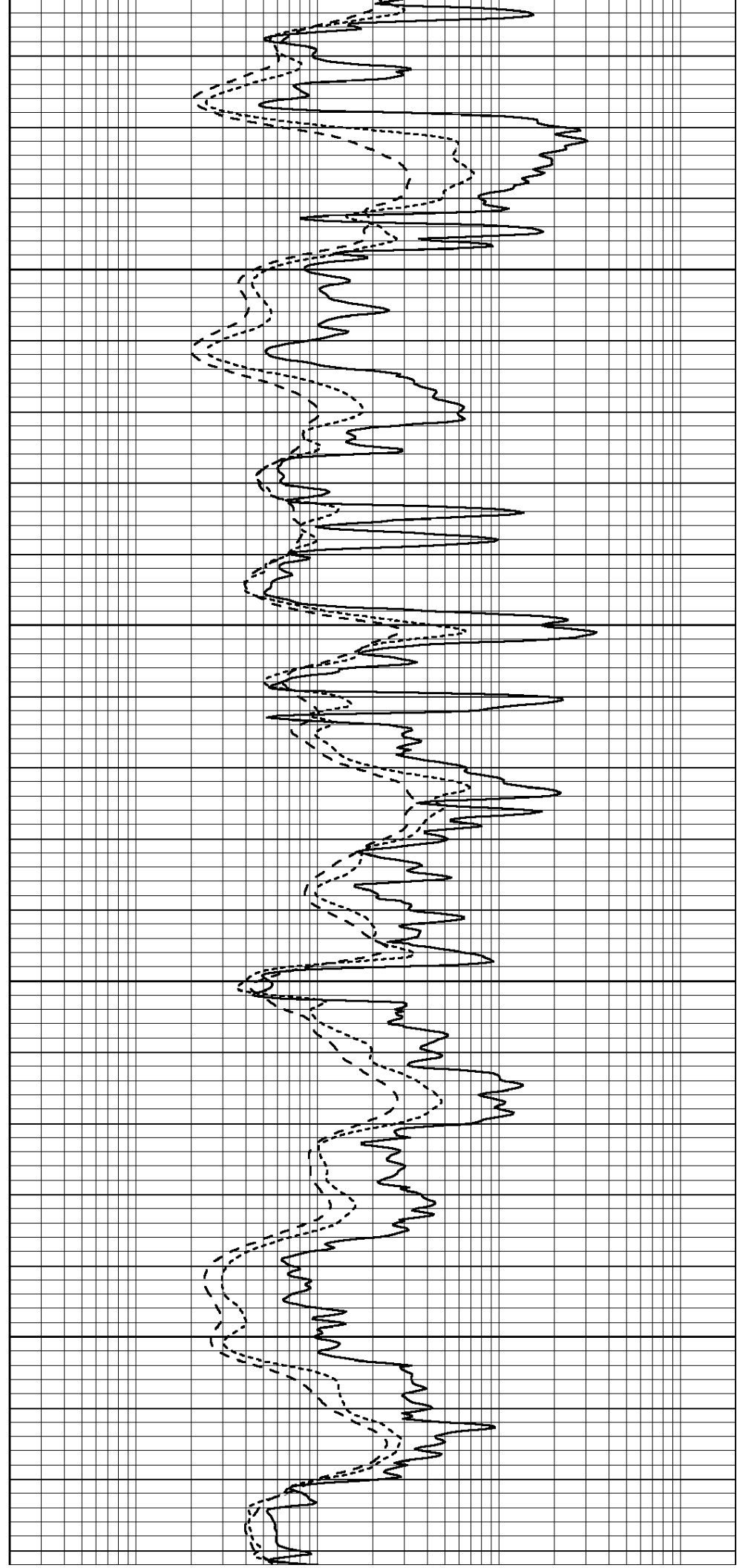


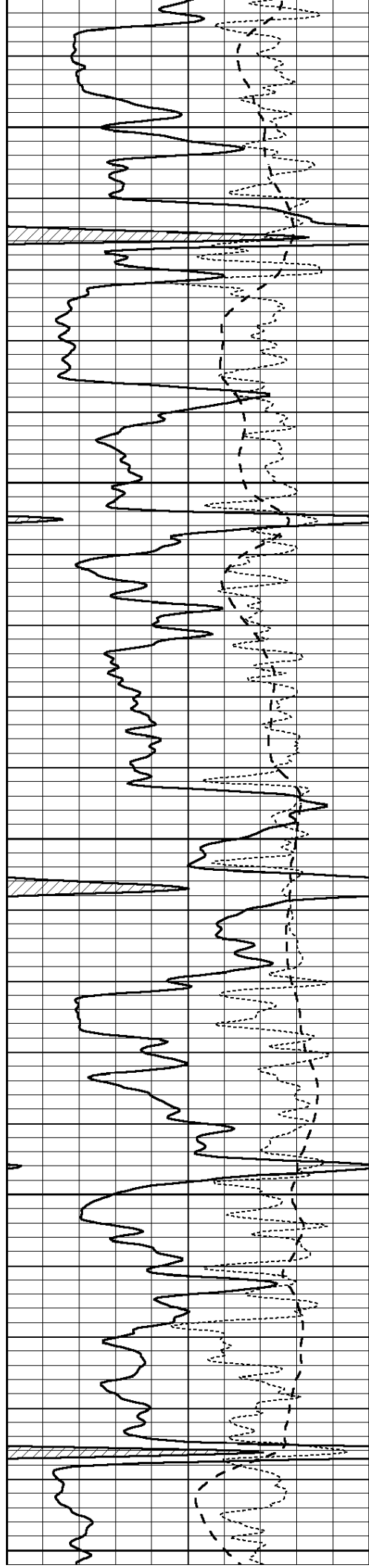
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4700

4750





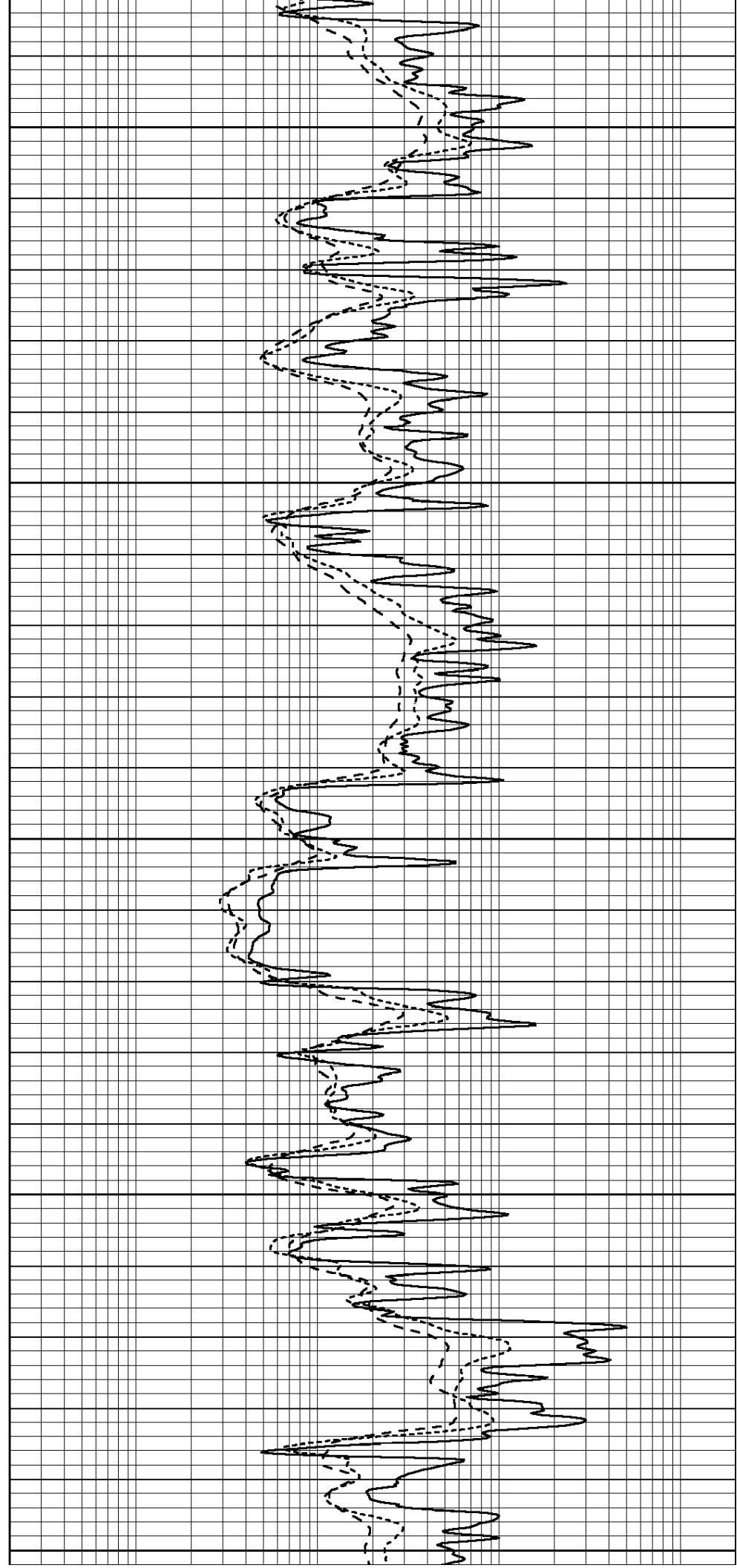
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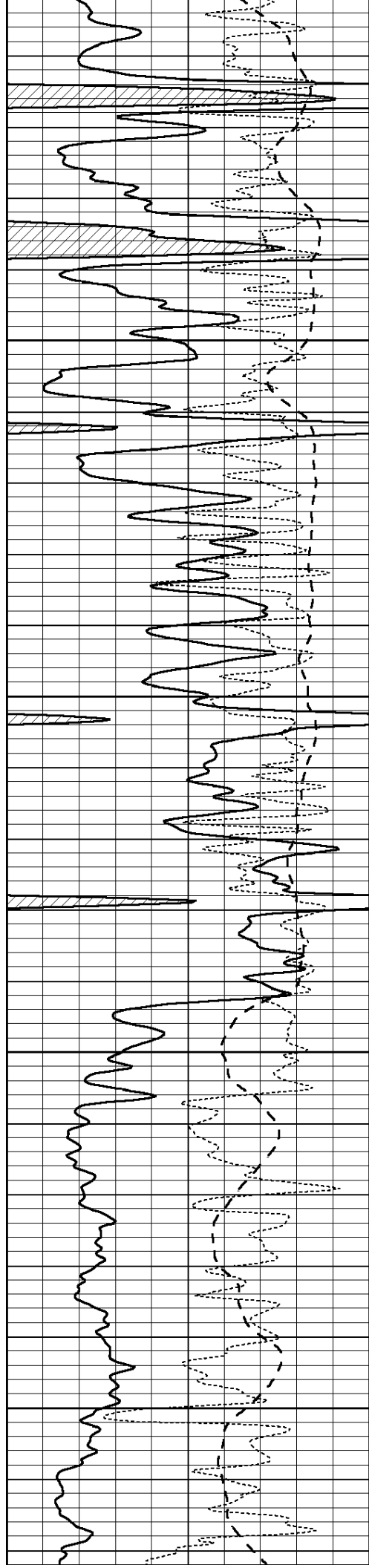
4850

4900

4950

5000



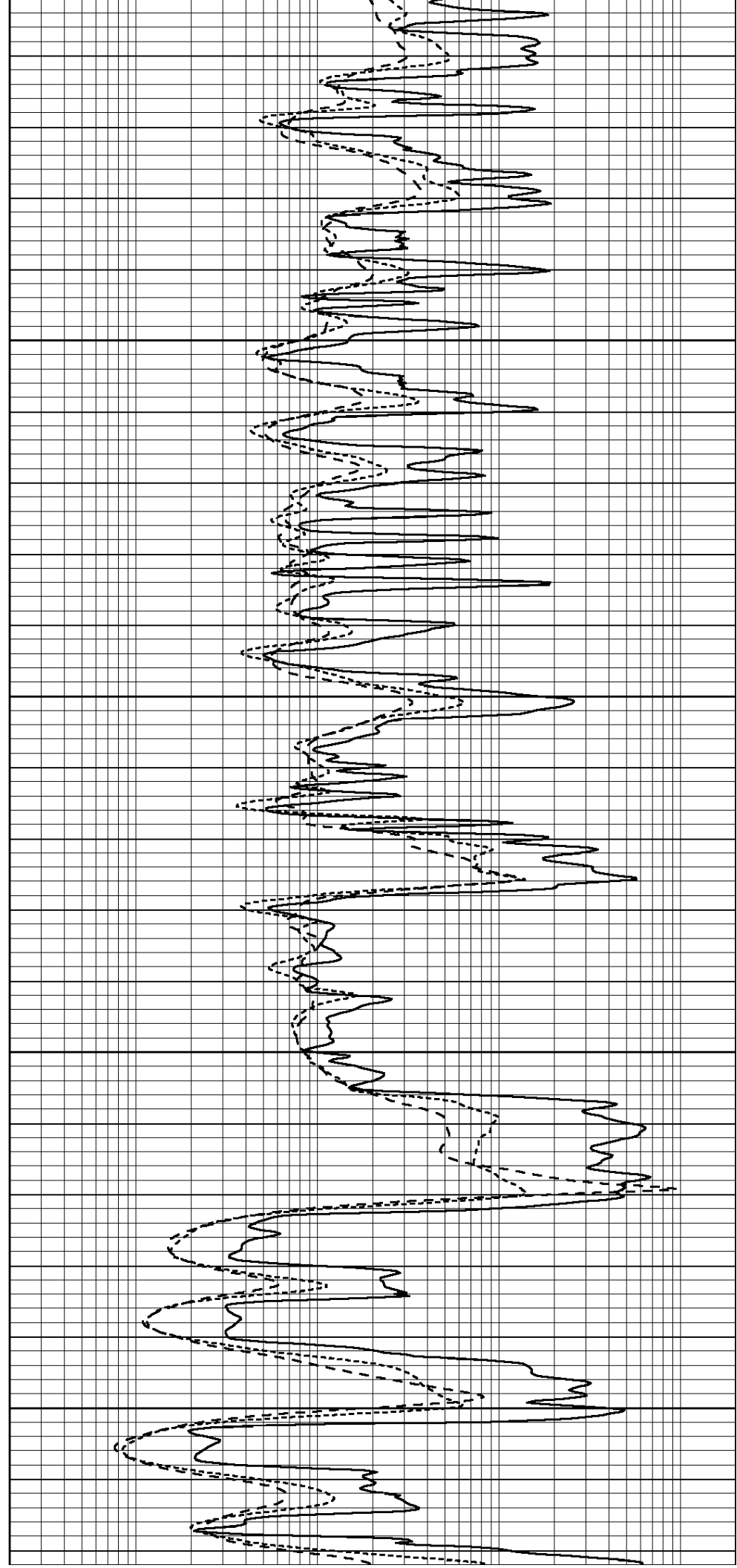


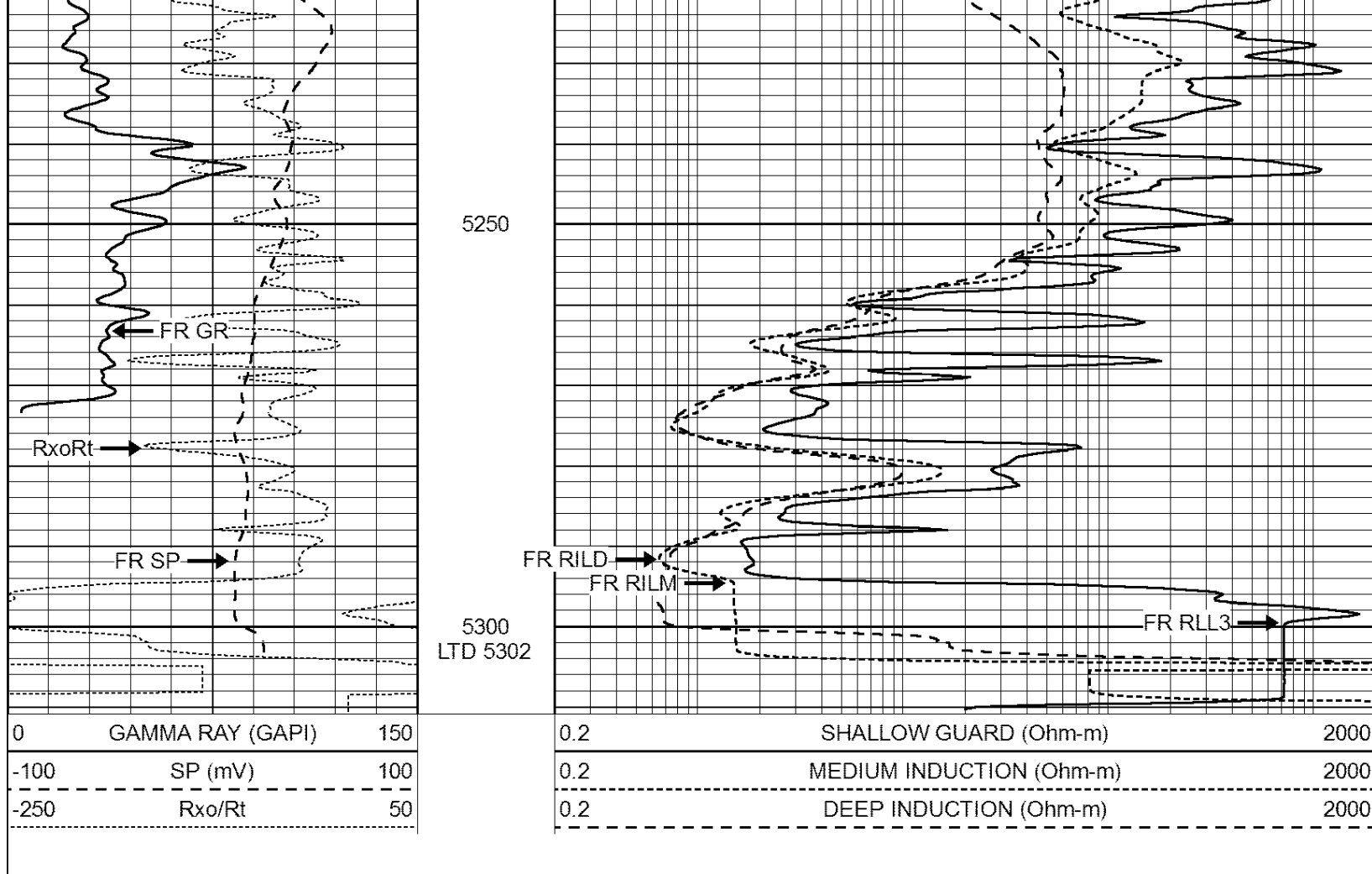
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5100

5150

5200

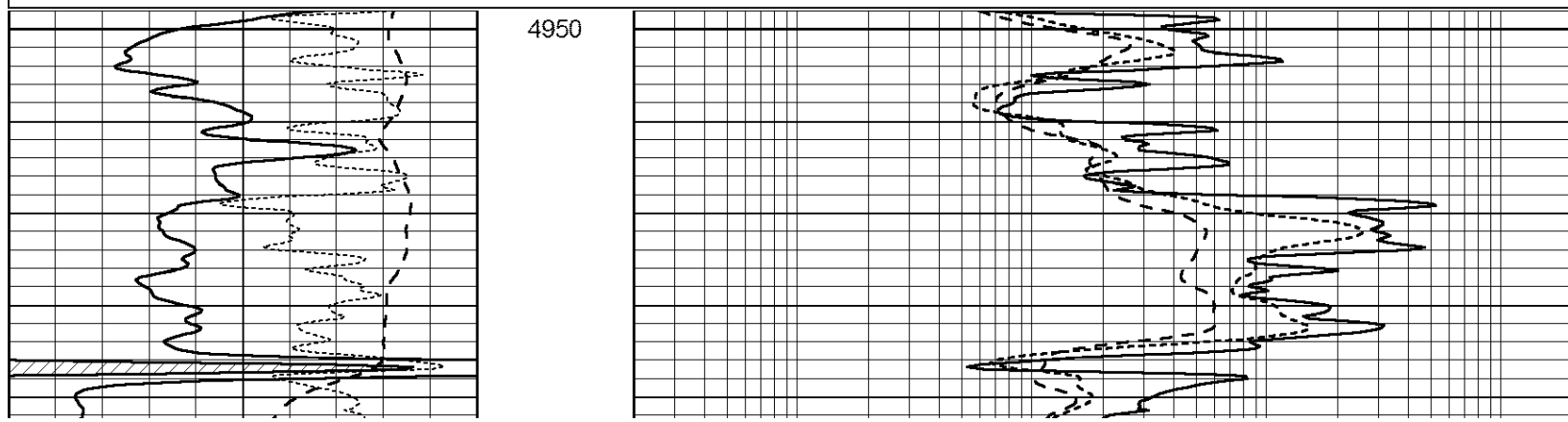


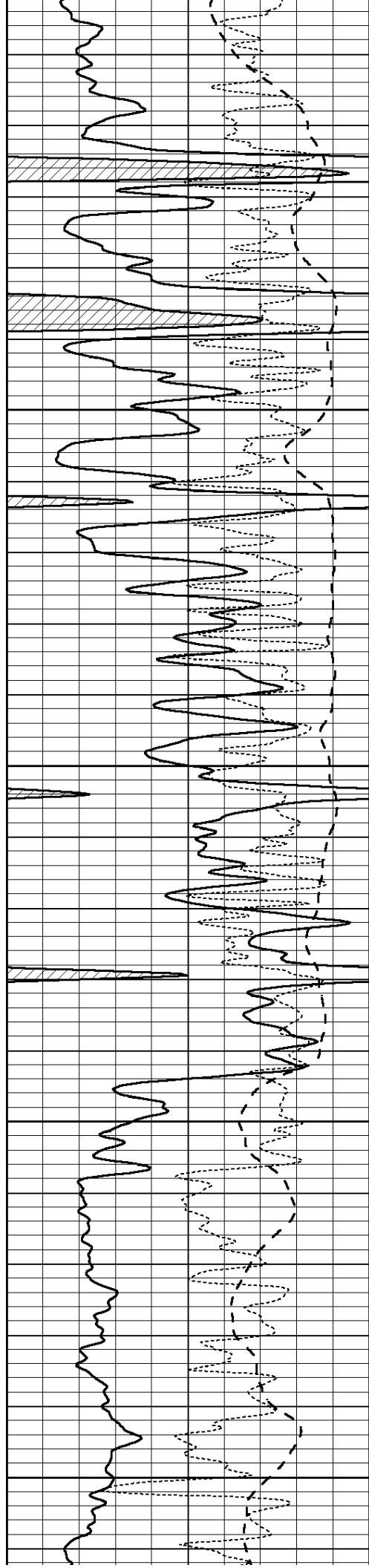


REPEAT SECTION

Database File: 26429pe.db
 Dataset Pathname: pass2.7
 Presentation Format: _dil
 Dataset Creation: Wed Jan 07 01:07:26 2015 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000





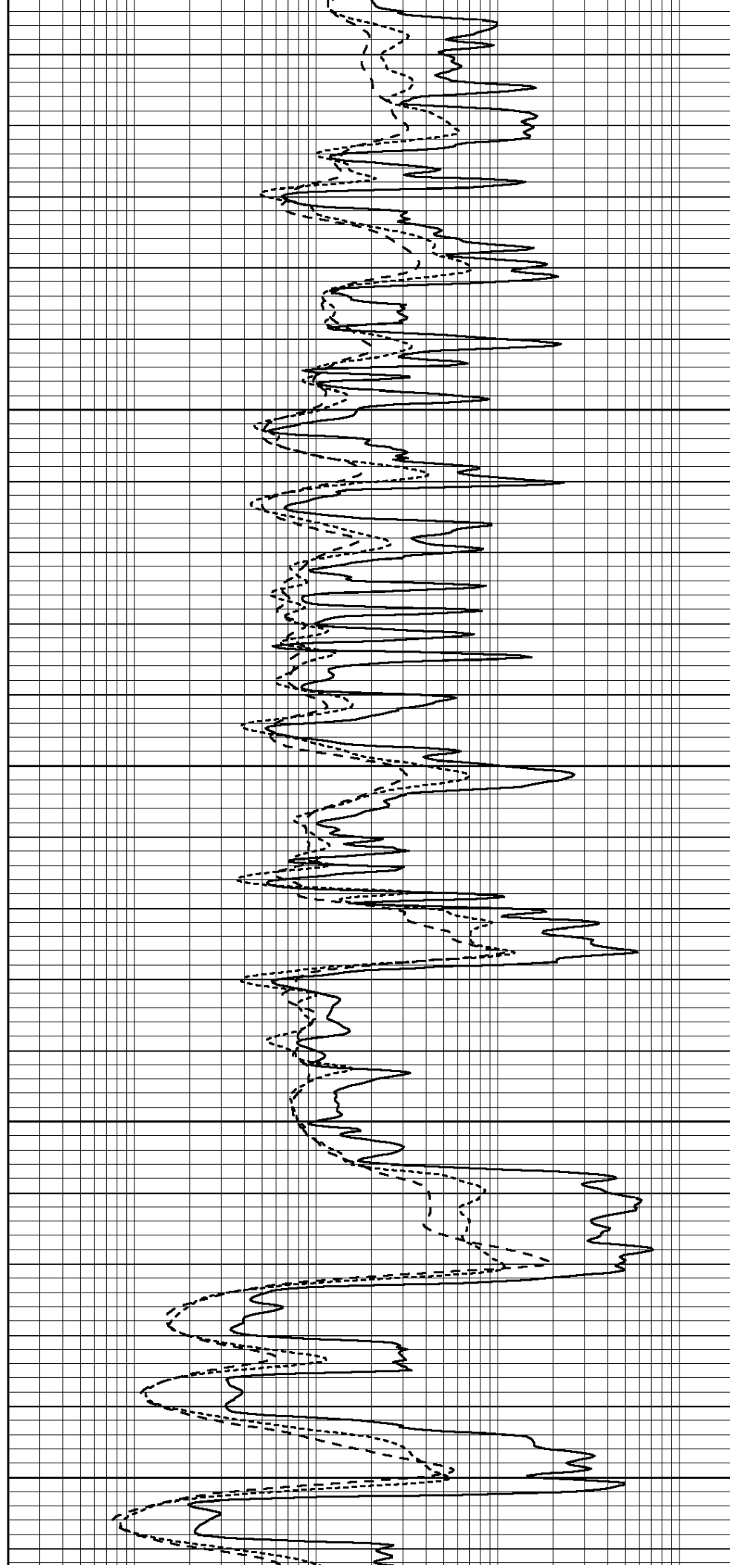
5000

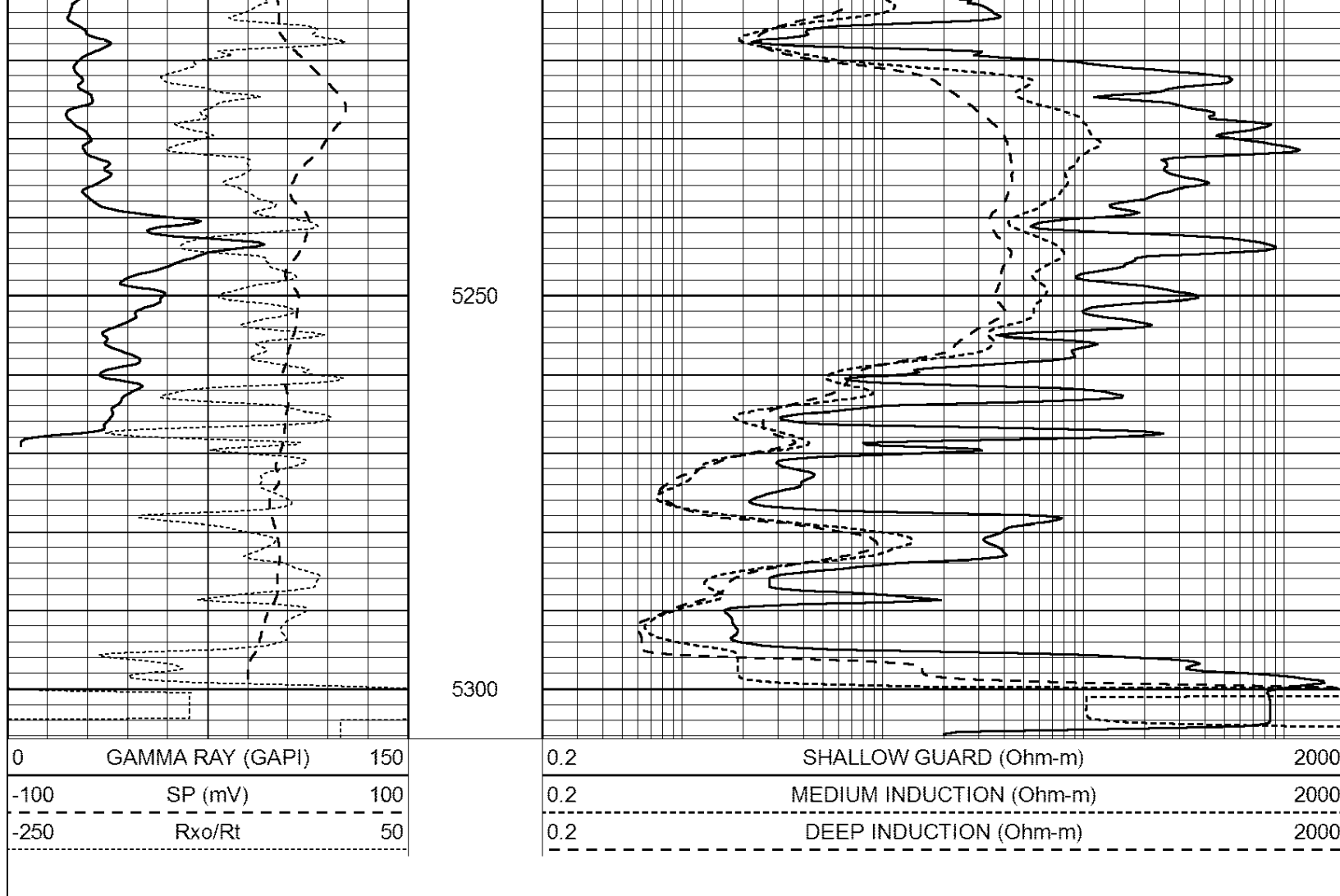
5050

5100

5150

5200





Calibration Report								
Database File:		26429pe.db						
Dataset Pathname:		pass3.4						
Dataset Creation:		Wed Jan 07 02:25:39 2015 by Calc Open-Cased 090629						
Dual Induction Calibration Report								
Serial-Model:		PROBE7-DILG						
Surface Cal Performed:		Fri Dec 05 11:16:41 2014						
Downhole Cal Performed:		Sat Jan 19 19:51:38 2013						
After Survey Verification Performed:		Sat Jan 19 19:51:38 2013						
Surface Calibration								
Readings			References				Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.793	0.790	V	0.000	400.000	mmho/m	520.000	12.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m	570.000	-32.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.041	0.642	V	0.000	400.000	mmho/m	664.874	-27.011
Medium	0.035	0.802	V	0.000	464.000	mmho/m	604.936	-21.367
Downhole Calibration								
Readings			References				Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	135384.000	27094.500	mmho/m	135400.000	27082.400	mmho/m	1.000	-19.259

Medium	-47330.100	-9381.740	mmho/m	-47327.100	-9389.280	mmho/m	1.000	-10.154
LL3		7.322	V		1400.000	Ohm-m		
		0.038	V		20.000	Ohm-m		
		-7.273	V		4000.000	mmho-m		

After Survey Verification								
	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	135384.000	27094.500	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-47330.100	-9381.740	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1400.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		4000.000	mmho-m		

Litho Density Calibration Report								
Serial: 06 Model: PRB								

Master Calibration					Performed Thu Oct 09 14:28:25 2019			
	Background		Magnesium		Aluminum		Sandstone	
Window 1	1287.1		7570.1		2764.0		8150.7	
Window 2	1212.7		6261.6		2285.4		6560.4	
Window 3	942.6		3263.2		1393.8		3331.0	
Window 4	309.7		313.4		308.2		313.9	
Long Space	0.0		5048.9		1072.7		5347.6	
Short Space	1.6		1713.6		1158.2		1823.5	
Rho			1.7100		2.5960		1.3800	
Pe			0.0000		2.5700		1.5500	
Rib Angle	: 45.8		Rib Slope	: 1.029	Density/Spine Ratio		: 0.555	
Spine Angle	: 75.8		Spine Slope	: 3.954	Spine Intercept		: -20.9	

Before Survey Verification					Performed Wed Dec 31 18:00:00 1969			
Window 1	0.0		0.0		0.0		0.0	
Window 2	0.0		0.0		0.0		0.0	
Window 3	0.0		0.0		0.0		0.0	
Window 4	0.0		0.0		0.0		0.0	
Long Space	0.0		0.0		0.0		0.0	
Short Space	0.0		0.0		0.0		0.0	
Measured Rho			0.0000		0.0000		0.0000	
Measured Correction			0.0000		0.0000		0.0000	
Measured Pe					0.0000		0.0000	

After Survey Verification					Performed Wed Dec 31 18:00:00 1969			
Window 1	0.0		0.0		0.0		0.0	
Window 2	0.0		0.0		0.0		0.0	
Window 3	0.0		0.0		0.0		0.0	
Window 4	0.0		0.0		0.0		0.0	
Long Space	0.0		0.0		0.0		0.0	
Short Space	0.0		0.0		0.0		0.0	
Measured Rho			0.0000		0.0000		0.0000	
Measured Correction			0.0000		0.0000		0.0000	
Measured Pe					0.0000		0.0000	

Compensated Neutron Calibration Report								
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Serial Number:					080620			
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Tool Model:		Probe	
PRE-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
POST-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
Gamma Ray Calibration Report			
Serial Number:	46001		
Tool Model:	Probe1		
Performed:	Mon Nov 24 09:45:18 2014		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.2600	GAPI/cps	